

PAPERS READ BEFORE THE SOCIETY FROM MARCH 1901
TO JANUARY 1902.

1901.

Mar. 8. Observations of the partial eclipse of the Sun, 1900 November 22, made at Perth Observatory, Western Australia. Communicated by W. E. Cooke.

On the observation of position angles of polar double stars. R. T. A. Innes.

On the Oxford photographic determinations of stellar parallax: reply to the criticisms of Sir David Gill. H. H. Turner.

Occultations of *Jupiter* and his satellites, 1900 September 29, observed at Windsor, New South Wales. John Tebbutt.

Cape double star results, 1900. Communicated by Sir David Gill.

Observations of the *Leonids*, 1900 November 15-16, made at the Royal Alfred Observatory, Mauritius. Communicated by T. F. Claxton.

Description of a floating photographic zenith telescope and some preliminary results obtained with it. Bryan Cookson.

Note on Mr. Bryan Cookson's paper, "On the accuracy of eye observations of meteors, and the determination of their radiant points." H. C. Plummer.

The variable star *R Centauri*. Alex. W. Roberts.

On the new star in *Perseus*. A. Stanley Williams.

Further corrections to the Armagh Catalogue; with special reference to the "Anonymous" stars. J. L. E. Dreyer.

Notes on the spectrum of Nova *Persei* observed at the Stonyhurst College Observatory. Rev. W. Sidgreaves.

Positions of Nova *Persei* and 159 stars within 25' distance from it; from a photograph taken at the University Observatory, Oxford. F. A. Bellamy.

Note accompanying photographs of the spectrum of Nova *Persei*. Frank McClean.

Observations of the new star in *Perseus* made at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

1901.

Apr. 12. A first note on the Nova in *Perseus*. K. D. Naegamvala.
 Note on some engraved charts of Pogson's proposed Atlas of Variable Stars. Rev. J. G. Hagen.

Meteoric showers from the region of $\alpha - \beta$ *Persei* and η *Aurigæ*. W. F. Denning.

Anomalous occultations of stars by the Moon. R. T. A. Innes.

A method of mechanically compensating the rotation of the field of a siderostat. H. C. Plummer.

Variations of *R Horologii* during 1900. Alex. W. Roberts.

Note on meridian observations of Nova *Persei*. A. Graham.

Further observations of the new star in *Perseus*. A. Stanley Williams.

The spectrum of Nova *Persei*, Note 2. Rev. W. Sidgreaves.

The spectrum of Nova *Persei*, Note 3; Nova *Persei* as a variable star with a variable spectrum. Rev. W. Sidgreaves.

Observations of Nova *Persei*. M. C. Sharp.

Further measures of double stars made at the Temple Observatory, Rugby, during the years 1895 to 1900. G. M. Seabroke, H. P. Highton, and E. C. Atkinson.

Observations of the new star in *Perseus* made at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

Formulæ and tables for correcting coordinates of stars on different photographs, especially different plates of the Astrographic Chart. H. H. Turner.

Further investigation of the "Two Method" personal equation. W. W. Bryant.

May 10. Second note on photographs of the spectrum of Nova *Persei*; correspondence with the spectrum of η *Argus*. Frank McClean.

Results of double-star measures with the 8-inch equatorial at Windsor, New South Wales, in the years 1899 and 1900. John Tebbutt.

The visual spectrum of Nova *Persei*. Rev. A. L. Cortie.

The spectrum of Nova *Persei*, Note 4. Rev. W. Sidgreaves.

The green flash at sunset. J. Franklin-Adams.

Further observations of the new star in *Perseus* (3). A. Stanley Williams.

Further observations of Nova *Persei*. M. C. Sharp.

The Cambridge machine for measuring celestial photographs. A. R. Hinks.

1901.

May 10. Further observations of the new star in *Perseus*, made at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

Results of micrometer measures of double stars made with the 28-inch refractor of the Royal Observatory, Greenwich, in the year 1900. Communicated by the Astronomer Royal.

Additional note on the position of Nova *Persei*, and a comparison of photographic magnitudes of neighbouring stars with those of Fr. Hagen's Chart and Catalogue. F. A. Bellamy.

Note on the geometry of the siderostat. H. C. Plummer.

June 14. Observations of Mars made at Mr. Edward Crossley's Observatory, Bermerside, Halifax, during the opposition of 1900-1901. Joseph Gledhill.

On a modified form of revolving occulter for adapting the exposure of the Sun's corona to its actinic intensity at all distances from the Moon's limb. D. P. Todd.

The Oxford determinations of stellar parallax. Reply to Professor Turner. Sir David Gill.

Light curve of Nova *Persei*, 1901. Laurence Child.

Sun-spots and magnetic disturbance. William Ellis.

Observations of Nova *Persei* made at Birr Castle Observatory, Parsonstown. The Earl of Rosse.

Secular variation in the period of *R Carinæ*. Alex. W. Roberts.

The great Comet of 1901 as observed at the Royal Observatory, Cape of Good Hope. Sir David Gill.

The Oxford photographic determinations of stellar parallax. Further reply to Sir David Gill. H. H. Turner.

Measures of double stars made at Mr. Edward Crossley's Observatory, Bermerside, Halifax. Joseph Gledhill.

Corrections to reduce the revised Madras Catalogue of stars for 1835° to the Fundamental Catalogue of Auwers. A. M. W. Downing.

The *Lyrids*, 1901 April, observed at Cambridge. J. C. W. Herschel.

Further observations of the new star in *Perseus* (4). A. Stanley Williams.

Observations of the Sun during 1901 May 17, 18 and 20, at Mells, near Frome. Maures Horner.

Estimations of magnitude of Nova *Aurigæ* in 1899-1900, with the mean results for the years 1892-1900, from observations at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

Further observations of the new star in *Perseus* made at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

1901.

Nov. 8. Solar eclipse, 1901 May 18 (observations of the partial phase at Perth Observatory, Western Australia). W. E. Cooke.

The normal equations that arise in the usual schemes of observation for division errors, and their solutions. P. H. Cowell.

Errata in the revised Madras Catalogue of stars for 1835°. A. M. W. Downing.

Mean areas and heliographic latitudes of Sun-spots in the year 1900, deduced from photographs taken at the Royal Observatory, Greenwich, at Dehra Dūn (India) and in Mauritius. Communicated by the Astronomer Royal.

A new form of reflecting telescope. Charles Anthony.

The green flash at sunset. W. H. Pickering.

Observations of Comet 1901 I. made at Perth Observatory, Western Australia. Communicated by W. E. Cooke.

Note in reply to Mr. Plummer's paper (*Monthly Notices*, vol. lxi. pp. 368-375). Bryan Cookson.

Recent observations of the position of *Nova Aurigae* with the 40-inch telescope of the Yerkes Observatory. E. E. Barnard.

On the accuracy of photographic measures; being a discussion of a recent paper by M. Loewy. H. C. Plummer.

The determination of selenographic positions and the measurement of lunar photographs. Second paper: Determination of a first group of standard points from measures made at the telescope and on photographs. S. A. Saunder.

Ephemeris for physical observations of the Moon for 1902. A. C. D. Crommelin.

Note on two stars in the revised Madras Catalogue for 1835°. A. M. W. Downing.

A new method of interpolation. T. C. Hudson.

On periodic orbits in the neighbourhood of centres of libration. H. C. Plummer.

The spectrum of *Nova Persei* from 1901 February 28 to April 26, with Appendix on the spectrum in September. Rev. W. Sidgreaves.

Ephemeris for physical observations of *Jupiter*, 1902-3. A. C. D. Crommelin.

On the variation of *T Centauri*. Alex. W. Roberts.

Comparison of the geocentric places of *Uranus*, *Neptune*, and the Sun, calculated from Newcomb's Tables, with their places calculated from Le Verrier's Tables, for the year 1904. A. M. W. Downing.

1901.

Nov. 8. Determination of Dr. Küstner's magnitude equation, from comparison of his meridian observations in zones $+24^{\circ}$ to $+27^{\circ}$ with measures of photographic plates taken at the University Observatory, Oxford. H. H. Turner.

On the place of the variable *RU Herculis* and neighbouring stars from photographic measures. F. A. Bellamy.

Experimental reduction of some photographs of *Eros* made at the Cambridge Observatory for the determination of the solar parallax. A. R. Hinks.

Further observations of the new star in *Perseus* made at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

Additional note on the green flash at sunset. W. H. Pickering.

Dec. 13. The observed motion and duration of the radiant point of the *Perseids*. W. F. Dunning.

Observations of Nova *Persei*. J. E. Gore.

Apparent paucity of the *Leonid* stream. Rev. S. J. Johnson.

Contribution to the history of the reflex zenith Tube. S. C. Chandler.

Note on a large fireball. W. F. Denning.

On the accuracy of measures on photographs : remarks on recent papers by M. Loewy and Mr. H. C. Plummer. A. R. Hinks.

On a simple method of accurate surveying with an ordinary camera. H. H. Turner.

The *Leonids*, 1901. Observations made at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

The *Leonids*, 1901. F. W. Henkel.

Description of Adams's MSS. on the perturbations of *Uranus*. R. A. Sampson.

On the velocity of a *Persei*. H. F. Newall.

1902.

Jan. 10. Observation of the *Leonid* meteors of 1901 made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

The attraction of the Himalaya Mountains upon the plumb-line in India. Major S. G. Burrard.

Period and light curve of 6685 *Y Lyrae*. A. Stanley Williams.

$\Sigma 1639$ *Comæ Berenicis*. Thomas Lewis.

Observations of occultations of stars by the Moon and of phenomena of *Jupiter*'s satellites made at the Royal Observatory, Greenwich, in the year 1901. Communicated by the Astronomer Royal.

1902.

Jan. 10. Observations of the satellite of *Neptune* from photographs taken at the Royal Observatory, Greenwich, in 1899-1900. Communicated by the Astronomer Royal.

On periodic orbits. E. T. Whittaker.

Comparison of photographic and visual magnitudes of the new star in *Perseus*. W. H. Robinson.